

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
22 January 2004 (22.01.2004)

PCT

(10) International Publication Number  
**WO 2004/008301 A2**

(51) International Patent Classification<sup>7</sup>: **G06F 3/00**

(21) International Application Number: **PCT/EP2003/008477**

(22) International Filing Date: 10 July 2003 (10.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
02368076.2 11 July 2002 (11.07.2002) EP

(71) Applicant (for all designated States except US): **INTERNATIONAL BUSINESS MACHINES CORPORATION [US/US]**; New Orchard Road, Armonk, NY 10504 (US).

(71) Applicant (for MC only): **COMPAGNIE IBM FRANCE [FR/FR]**; Tour Descartes, La Défense 5, 2, Avenue Gambetta, F-92400 Courbevoie (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **LONGOBARDI, Giuseppe [IT/IT]**; Via Aristide Leonori, 42, I-00100 Roma (IT). **CAGGESE, Sergio [IT/IT]**; Via Monte dei Nove Draghi 14B5, I-00144 Roma (IT). **ZU, Luciano [IT/IT]**; Via Collatina 40, I-00177 Roma (IT).

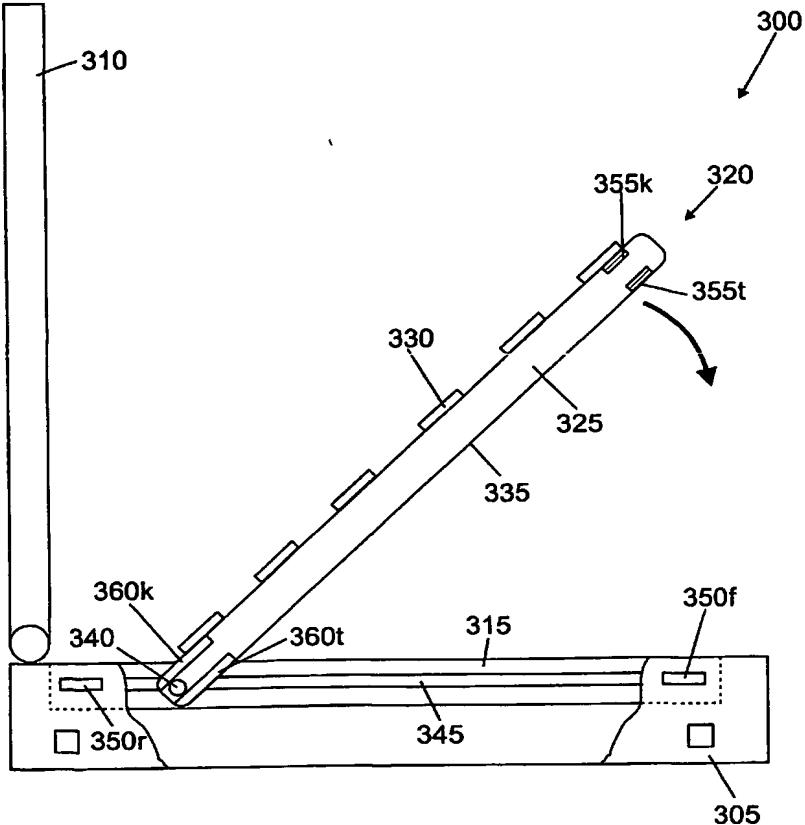
(74) Agent: **ZERBI, Guido**; Compagnie IBM France, Direction de la Propriété Intellectuelle, F-06610 La Gaude (FR).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

*[Continued on next page]*

(54) Title: A PERIPHERAL DEVICE FOR A DATA PROCESSING SYSTEM



(57) **Abstract:** A peripheral device (320) for use in a data processing system (300) is proposed. The peripheral device includes a panel (320) carrying a mechanical keyboard (330) and a touch-screen (335) on opposed surfaces. The panel may be turned upside down, so as to make available either the keyboard or the touch-screen. In this way, the keyboard may be used when working with applications doing ordinary computing work; in addition, the touch-screen may be used as an alternative input/output unit that is configurable to meet the needs of different applications. For example, the touch-screen displays a colored console when playing games, a navigation toolbar when surfing on the INTERNET, a piano keyboard when playing music, and so on.

WO 2004/008301 A2